

Peer inputs – Sessions 4

Sofia, 18 June 2019







Flanders Make GER VAN DEN KERKHOF

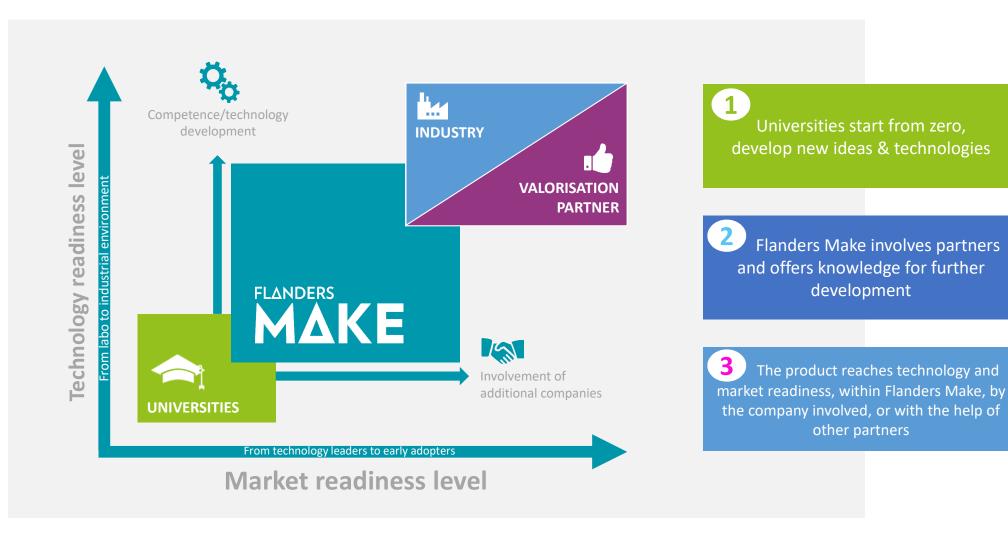
1. Flanders Make

- Strategic Research Centre Mfg Industry (RIS3 strategy Flanders)
- Strengthen the LT competitiveness of the mfg industry
 - Production, Machines, Vehicles
 - Pré competitive research, optimisation of products and processes, testing and validation, bi-lateral research projects
 - Develop, transfer and disseminate knowledge I4.0 related!
- 8 locations in Flanders, 500 researchers, started in 2014
- Financially supported by Flemish Govt and industry



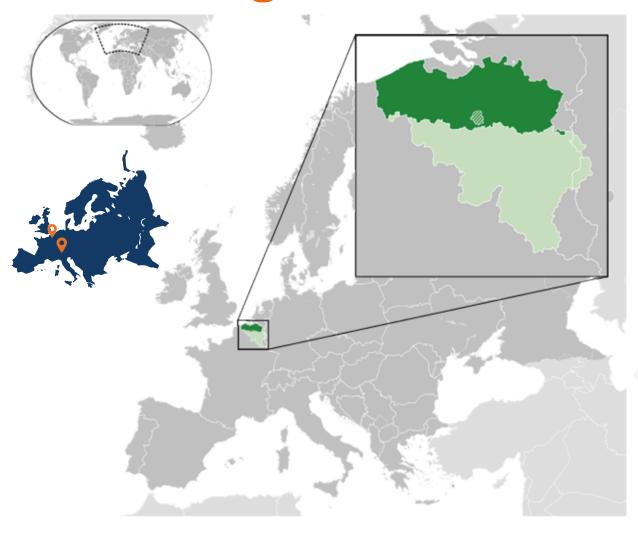


1. Flanders Make





2. The region Flanders



- Northern part of Belgium
- 5 provinces, 7,9 mio inhabitants
- Language = Dutch
- Capital Brussels, complex govt structure
- Strong industry (LCs and SMEs)
- R&D intensity 2,46% of GDP (2016)
- Total R&D spending € 5,92 bio
- Main exports: pharma, chemicals, transport eq and machines, but also:





and



2. The region Flanders (industry) Picanol, v/d Wiele Jan De Nul, Deme Punch Powertrain AB Inbev









(•) ARKITE

proceedix

Barco



Van Hool





Case New Holland



Tenneco



E-Trucks





Cartamundi



Janssen Pharmaceutics, **Thrombogenics**



Soudal





- Flemish Smart Specialisation Strategy (RIS3)
 - Focus on 6 thematic « spearhead » domains
 - Logistics, Health, Medical, Nano technology, Eco technologies, Social
 - Both top-down and bottom-up approach
 - Ownership @ MA (Flanders Innovation and Entrepreneurship)

1. <u>Semi-permanent initiatives – top down</u>

- SRCs (4x): iMec, VITO, VIB, Flanders Make
- LT Government commitment
- Sector based « longer term » research, strong industry involvement







science meets life



2. Mid to long term initiatives — mainly bottom up

- Spearhead Clusters (6x): Food, Materials, Energy, Chemicals, Logistics, Blue economy
- Companies in the drivers seat; clear financial commitment
- Initiate, facilitate and follow-up active and concrete collaborations
- Ambitious, larger scale activities
- Lifespan max 10 years max € 500k/year funding 50% private investment











3. Short term initiatives — bottom-up

- Innovative Company Networks (16x)
- Companies in the drivers seat; financial contribution to the ICN
- Smaller scale activities; short term results
- Lifespan max 3 years max € 150k/year funding 50% private investment













- 4. The Flemish Universities (5x)
 - Brussels, Louvain, Ghent, Antwerp, Hasselt













VTT

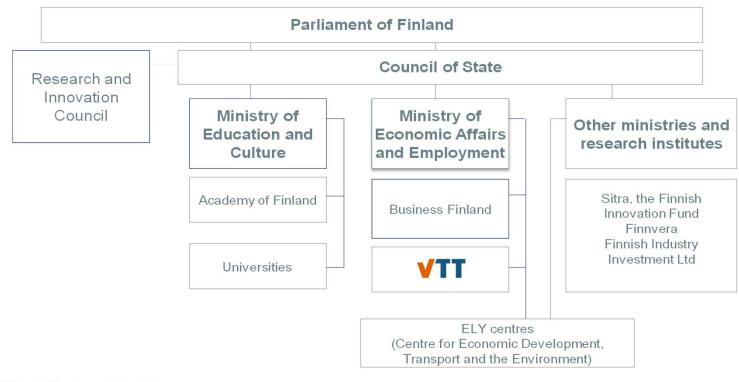
TECHNICAL RESEARCH CENTRE OF FINLAND

LEENA SARVARANTA

1. VTT Technical Research Centre of Finland

Public decision makers, financiers and R&D performers





4

2. VTT's regional context





Personnel by location (31.12.2018)

Other locations	20	20
Kuopio	11	11
Jyväskylä	76	76
Tampere	239	239
Oulu	272	272
Espoo	1,442	1,434
	VTT Group	Parent company

VTT's marketing and networking offices
Brussels (Belgium)



14/06/2019 VTT - beyond the obvious

3. CoEs and CoCs in Finland





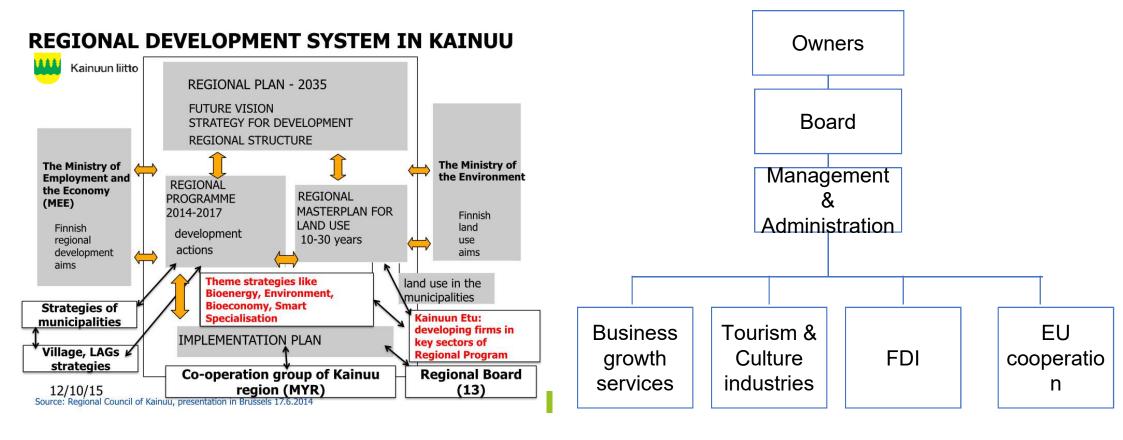
- Innovation partner to companies
- Finland's biggest single actor in EU's framework programmes
- Participates in ca. 30 national technology programmes (Business Finland, Academy of Finland)
- Strategic partnerships with main universities
- Participates in two Academy of Finland Centers of Excellence and in four Flagship Programme

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KAINUUN ETU OY NINETTA CHANIOTOU

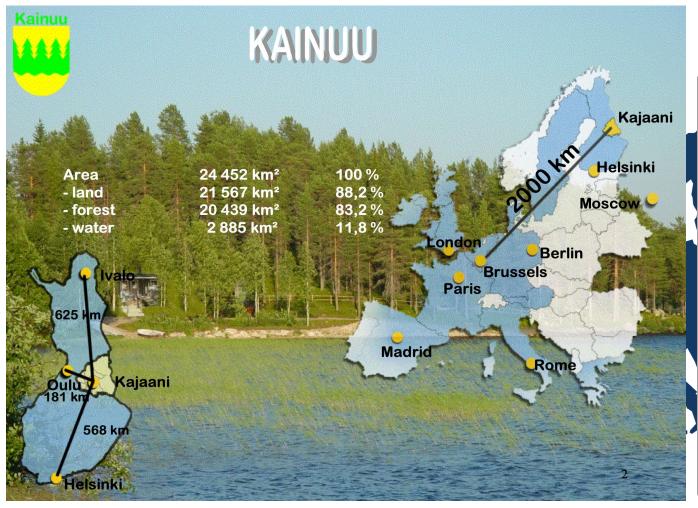
1. Your Organisation: Kainuun Etu



1. Your Organisation: Kainuun Etu

- I have worked in three organisations that have affinities with Centres of Competence: Kainuun Etu and Lahti Science Park in Finland; and the Development Company of the Athens Chamber of Commerce and Industry in Greece.
- KAINUUN ETU: Kainuun Etu is a public equivalent company owned by the municipalities of Kainuu region. Its purpose is the economic development and competitive growth of the region and its businesses. KE was established in 1989 and, since then, its objectives are regularly updated to reflect regional policy priorities. KE has a staff of 24; the turnover in 2017 was 3 600 000€; all work, following reforms of the public sector in 1999, is project-based. About 25% of the turnover comes from EU interregional, trasnational and cross border cooperation schemes (Interreg, CBC, H2020).

2. Your Regional Context: Kainuu



Administrative structure



2. Your Regional Context: Kainuu



The economy

- GDP: 27160 € per inhabitant (2016)
- Number of enterprises: 4109
- Technology industry covers more than 50 % of the total export in the region.
- Clusters of strategic importance: Bio-based forest economy, renewable energy, food & agri-, nature-based welfare services (green care & nature tourism)

The following have been selected a priority fields for economic development:

- -Tourism and services
- -Technology industry: ICT and electronics fields, data centre expansion, gaming
- -Metal industry
- -Bio-based economy and bio-mining
- -Mechanical timber processing
- Development of timber construction
- -Bio-energy (biofuels)
- -Agriculture (e.g. local produce and organic products)
- –Mining (mining, stone dressing, industrial minerals)

Strategies guiding bio economy activities

- -Kainuu Programme 2018-2021
- -RIS3 Strategy
- -Kainuu Bio-based economy Strategy 2015 -2020
- -Regional Forest Programme 2016-2020
- -Kainuu Berry masterplan.

Strategies guiding metal and mineral industry activities

- Kainuu Programme 2018-2021
- RIS3 Strategy
- Kainuu Mineral Resource Action Plan 2019-2025

Strategies guiding agriculture and food production

- Kainuu Programme 2018-2021
- RIS3 Strategy
- Kainuu Land and Food Sector Thematic Program 2014-2020
- Kainuu Berry masterplan

Tourism strategy 2018-2021

Mining strategy 2019 - 2025

3. The CoE and CoC in your Region

In Kainuu there are 3 Centres of Competence:

- Kantola industrial estate and Woodpolis centre of competence; industry driven: development of wood processing industry in Kantola industrial estate is the long-term goal of the Kuhmo city. The need to diversify from the saw-mill industry towards the new types of demand.
 https://www.interregeurope.eu/policylearning/good-practices/item/136/kantola-industrial-estate-and-woodpolis-centre-of-competence/
- Unit of Measurement Technology (MITY) University of Oulu, as regional specilisation infrastructure; research driven: industrial valorisation of the berry ingredients in traditional and emerging applications. https://www.interregeurope.eu/policylearning/good-practices/item/146/unit-of-measurement-technology-mity-university-of-oulu-as-regional-specilisation-infrastructure/
- Vuokatti professional Winter Nordic sports, leisure and learning education cluster (VPWNS); research driven: combining knowledge from biomechanics, exercise physiology and science of sport coaching and fitness testing. https://www.interregeurope.eu/policylearning/good-practices/item/141/vuokatti-professional-winter-nordic-sports-leisure-and-learning-education-cluster/.

3. The CoE and CoC in your Region

	CHARACTERISTICS							
CENTRES OF COMPETENCE	Researc h (R) or Industry (I) driven	Status	Funding sources	Main tool	Location of activities	Multiplier effect	Challenge	
Kantola	I	Public equivalent	85% projects 15% budget	Master plan	Regional & national	Wooden sustainable construction industry Diversification & specialisation	Returns to scale: size of national market; size of cluster small Strategic linkages with Centres of Excellence (cost factor)	
MITY	R	Public	85% projects 15% budget	Berry ingredients research programme of the University of Oulu	Regional, national, international	IPR, innovative products, scientific outputs	Returns to scale: regional economic base small	
VPWNS	I	Public	85% projects 15% budget	University of Jyväskylä research programme based on global professional sports industry trends	Regional, national, international	Innovations & specialised education (Ph.D.s) Strengthening professional sports cluster in Vuokatti	Returns to scale: regional economic base small	



MINISTRY OF THE ECONOMY AND INNOVATION OF THE REPUBLIC OF LITHUANIA

TADAS TUMENAS

1. Lithuania

Short facts:

- 2,8 million population
- Capital Vilnius
- Member of WTO, EU, Eurozone and NATO

LT performance:

- 13th freest economy in the world (2018)
- 14th globally for ease of doing business (2019)
- 1st in Europe for mobile 4G coverage
- 3rd in the EU for share of STEM bachelor graduates
- 2nd in the EU for % of population with higher education
- 13 in the EU in the DESI (Digital economy and Society index)
- Moderate innovator according to EIS 2018







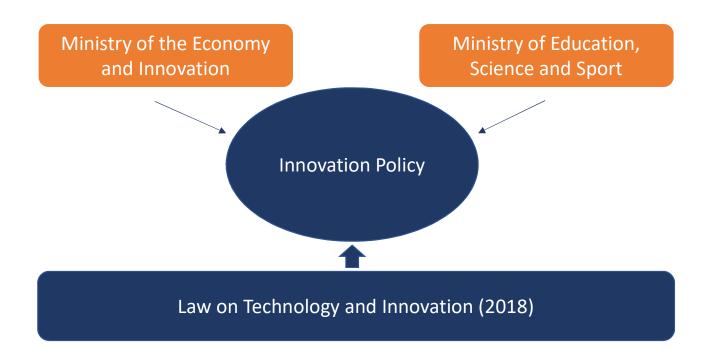


2. Ministry of the Economy and Innovation

The Ministry of the Economy and Innovation is responsible for handling government business in the following areas:



3. Innovation Policy



4. CoCs in Lithuania

- Centers of Competence (CoC) 9:
 - ✓ Vilnius University 2
 - √ Vilnius Gediminas Technical University 3
 - ✓ Center for Physical Sciences and Technology 1
 - ✓ Lithuanian University of Health Sciences 2
 - ✓ Kaunas University of Technology 1

5. CoEs in Lithuania

- Centers of Excellence (CoE) 3:
 - ✓ Center of Excellence of IT Science and Technology for the IoT and Smart Living Systems (InnoITeam) (Kaunas University of Technology, Vilnius Gediminas Technical University, State Enterprise Center of Registers, Linkoping University, Interactive Institute Swedish ICT)
 - ✓ Center of Excellence in Science and Technology for Healthy Ageing (Health-Tech) (Kaunas University of Technology, Lithuanian University of Health Sciences, Vilnius University, Lund University, VTT Technical Research Center of Finland)
 - ✓ Center of Excellence of Creative and Cultural Innovation" (InnoCult) (Vytatutas Magnus University, Kaunas University of Technology, Politecnico DI Milano)

Coordinator of Centre of Excellence in Science and Technology for Healthy Ageing



(Teaming phase 1, project HEALTH-TECH, No 664339)

4 STRATEGIC RESEARCH AND INNOVATION TOPICS









Mechanisms for age-related diseases

Biomakers for age-related diseases

Diagnostics and monitoring technologies for age-related diseases

Regenerative technologies for age-related diseases

Integrating Lithuanian Expertise:
Kaunas University of Technology
Lithuanian University of Health Science
Vilnius University









Supported by Advanced Partners:

Lunds University
Teknologian Tutkimuskeskus VTT

Coordinator of Centre of Excellence of the Internet of Things

ktu 1922

(Teaming phase 1, project Innolteam, No 763805)

3 STRATEGIC RESEARCH AND INNOVATION TOPICS



Interface and interaction design approaches for Smart Environments



Cybersecurity aspects



Data analysis and visualisation

Integrating Lithuanian Expertise:

Kaunas University of Technology

Vilnius Gediminas Technical University

State Enterprise Centre of Registers







Supported by Advanced Partners:



Linkoping University



Interactive Institute Swedish ICT

Partner of Centre of Excellence for Cultural and Creative Innovations in Lithuania

ktu

(Teaming phase 1, project InnoCult, No 763748)

4 MAIN OBJECTIVES OF THE PROJECT









CCI ecosystem dynamics

CCI (Re)volutionary competence, attitudes and skills CCI open innovation process

CCI digitalisation

Integrating Lithuanian Expertise: Vytautas Magnus University



Supported by Advanced Partner: Politecnico Di Milano

Kaunas University of Technology



POLITECNICO



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Sofia, 18 June 2019



